TABLE A-6C
SEMI-ANNUAL AND ANNUAL MONITORING PROGRAM
DELAWARE SAND & GRAVEL SUPERFUND SITE
NEW CASTLE COUNTY, DELAWARE

Sample ID	Well Type/Purpose	Screened Unit	Screen Interval (ft-bgs)	Sampling Depth (ft-bgs)	Purging and Sampling Method	April Event	October Event	Once Per Year		FSWP Revision 2 (October 2011) Sampling Location	ACL Semi-Annual Monitoring Program	ACL Additional Investigation Work Plan (not including to-be-installed ACL wells, upgradient wells or gas vents)
						Routine Groundwater Monitoring		Cations and Anions	PFAS Monitoring			
						VOCs+II-1,4-dioxane, SVOCs+II-BCEE, d-Fe/Mn, TAL Metals, Ammonia	VOCs+II-1,4-dioxane, SVOCs+II-BCEE, d-Fe/Mn					
DDA Low-Flow Extraction System Wells												
B-4DR	Extraction - LFExS	Columbia	31-41	NA	no purge - direct draw	x	x	-	x*	Yes	-	-
BG-1	Extraction - LFExS	Columbia	22-42	NA	no purge - direct draw	x	x	-	-	Yes	-	-
C-18D	Extraction - LFExS	Columbia	31-37	NA	no purge - direct draw	x	x	-	x*	Yes	-	-
C-19D	Extraction - LFExS	Columbia	38-43	NA	no purge - direct draw	x	x	-	-	Yes	-	-
C-20D	Extraction - LFExS	Columbia	43-48	NA	no purge - direct draw	x	x	-	-	Yes	-	-
C-2D	Extraction - LFExS	Columbia	29-40	NA	no purge - direct draw	x	x	-	-	Yes	-	-
C-30	Extraction - LFExS	Columbia	27-37	NA	no purge - direct draw	x	x	-	-	Yes	-	-
C-4D	Extraction - LFExS	Columbia	34-42	NA	no purge - direct draw	x	x	-	-	Yes	-	-
DDA Monitoring Wells within Containment Area												
B-2D	Monitoring near BG-1 and C-2D	Columbia	36-46	41	submersible - low lfow	x	-	-	-	Yes	-	-
B-3D	Monitoring near BG-1 and C-4D	Columbia	38-45	41	submersible - low lfow	x	-	-	x*	Yes	-	-
C-1D	Monitoring along Northern Boundary	Columbia	28-38	33	submersible - low lfow	x	-	-	-	Yes	-	-
C-22S	Monitoring above Columbia Clay	Columbia	30-38	36	submersible - low lfow	x	-	-	-	Yes	-	-
C-3D	Monitoring along Northern Boundary	Columbia	31-44	38	submersible - low lfow	x	-	-	-	Yes	-	-
MHW-1M	Monitoring near C-20D	Columbia	40-45	43	submersible - low lfow	x	-	-	x*	Yes	-	-
MHW-1S	Monitoring near C-20D	Columbia	30.2-35.2	33	submersible - low lfow	x	-	-	-	Yes	-	-
PZ-6S	Monitoring near C-30 and Partition	Columbia	26-29	27	3x - bailer	x	-	-	-	Yes	-	-
DDA Monitoring Wells within Partition Area												
P-4D	Monitoring - Partition	Columbia	26.5-36.5	31	submersible - low lfow	x	-	-	-	Yes	-	-
PZ-4-INT-R	Monitoring - Partition	Columbia	29-34	32	submersible - low lfow	x	-	-	-	Yes	-	-
PZ-6N	Monitoring - Partition	Columbia	30-33	31	3x - bailer	x	-	-	-	Yes	-	-
DDA to PW-1(U) Monitoring Wells												
GA-101	Monitoring - Northern DDA Boundary	Columbia	22-28	26	submersible - low lfow	x	x	-	x*	Yes	-	-
PZ-5-EXT	Monitoring - Northern DDA Boundary	Columbia	27-30	29	submersible - low lfow	x	x	-	-	-		
PZ-11-EXT	Monitoring - Northern DDA Boundary	Columbia	37-42	40	submersible - low lfow	x	x	-	x*	Yes	-	-
DGC-7C	Monitoring - Near Inert Area	Columbia	23-33	28	3x - bailer	x	x	-	-	Yes	-	-
DDA-05	Monitoring - Downgradient of DDA	UPCUTZ	54-64	59	submersible - low lfow	x	-	x	-	Yes	-	-
DDA-06	Monitoring - Downgradient of DDA	UPCUTZ	46-56	51	submersible - low lfow	x	-	x	x*	Yes	-	-
DDA-07-TZ	Monitoring - Beneath DDA	UPCUTZ	44-49	47	submersible - low lfow	x	-	-	x**	added in 2012	-	-
DDA-08-TZ	Monitoring - Beneath DDA	UPCUTZ	49-59	54	submersible - low lfow	x	-	-	x*	added in 2012	-	-
DDA-09-TZ	Monitoring - Downgradient of DDA	UPCUTZ	55-65	67	submersible - low lfow	x	-	-	-	added in 2012	-	-
DDA-12-TZ	Monitoring - Downgradient of DDA	UPCUTZ	39-54	47	submersible - low lfow	x	-	-	x*	added in 2012	-	-
DDA-13-TZ	Monitoring - Downgradient of DDA	UPCUTZ	48-58	53	submersible - low lfow	x	-	-	-	added in 2012	-	-
DDA-14-TZ	Monitoring - Beneath DDA	UPCUTZ	49-59	54	submersible - low lfow	x	-	-	-	added in 2012	-	-
DDA-15-TZ	Monitoring - Beneath DDA	UPCUTZ	54-64	59	submersible - low lfow	x	-	-	x*	added in 2012	-	-
DDA-16-TZ	Monitoring - Downgradient of DDA	UPCUTZ	51-59	56	submersible - low lfow	x	-	-	x*	added in 2012	-	-
DGC-5	Monitoring - Northern DDA Boundary	UPCUTZ	35-55	45	submersible - low lfow	x	x	x	x	Yes	-	-
DGC-7S	Monitoring - Near Inert Area	UPCUTZ	60-80	70	submersible - low lfow	x	-	x	-	Yes	-	-
DDA-01	Monitoring - Downgradient of DDA	UPA-Upper Sand	84-94	89	submersible - low lfow	x	-	x	-	Yes	-	-
DDA-02	Monitoring - Downgradient of DDA	UPA-Upper Sand	84-94	89	submersible - low lfow	x	x	x	x	Yes	-	-
DDA-03	Monitoring - Downgradient of DDA	UPA-Upper Sand	80-90	85	submersible - low lfow	x	-	x	x	Yes	-	-
DDA-04	Head monitoring for PW-1(U)	UPA-Upper Sand	80-90	85	submersible - low lfow	-	-	-	-	-	-	-
DDA-07-US	Monitoring - Beneath DDA	UPA-Upper Sand	63-73	68	submersible - low lfow	x	-	-	x**	added in 2012	-	-
DDA-08-US	Monitoring - Beneath DDA	UPA-Upper Sand	62-72	67	submersible - low lfow	x	-	-	-	added in 2012	-	-
DDA-10-US	Monitoring - Downgradient of DDA	UPA-Upper Sand	42-52	47	submersible - low lfow	x	x	x	x	added in 2012	-	-
DDA-11-US	Monitoring - Downgradient of DDA	UPA-Upper Sand	75-85	80	submersible - low lfow	x	-	-	-	added in 2012	-	-
DDA-12-US	Monitoring - Downgradient of DDA	UPA-Upper Sand	67-77	72	submersible - low lfow	x	x	x	x	added in 2012	-	-
DDA-15-US	Monitoring - Beneath DDA	UPA-Upper Sand	85-95	90	submersible - low lfow	x	-	-	-	added in 2012	-	-
DDA-16-US	Monitoring - Downgradient of DDA	UPA-Upper Sand	63-73	68	submersible - low lfow	x	-	-	x*	added in 2012	-	-
DDA-17	Monitoring - Downgradient of DDA	UPA-Upper Sand	67-77	72	submersible - low lfow	x	-	-	-	added in 2012	-	-
DGC-2S	Monitoring - West of DDA	UPA-Upper Sand	50-70	60	submersible - low lfow	x	-	x	x*	Yes	-	-
DGC-2D	Monitoring - West of DDA	UPA-Lower Sand	105-115	110	submersible - low lfow	x	-	-	-	-	-	-
MHW-1D	Monitoring - Beneath DDA	UPA-Upper Sand	65-75	70	submersible - low lfow	x	x	x	-	Yes	-	-
PW-1(U)	Extraction - PW-1(U)	UPA-Upper Sand	68-93	NA	no purge - direct draw	x	x	x	x	Yes	-	-
DDA-11-LS	Monitoring - Downgradient of DDA	UPA-Lower Sand	105-115	110	submersible - low lfow	x	-	-	x**	added in 2012	-	-
MW-45	Monitoring	UPA-US and LS	110-145	-	submersible - low lfow	-	-	-	-	-	-	-

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DELAWARE SAND & GRAVEL SUPERFUND SITE
NEW CASTLE COUNTY, DELAWARE

Sample ID	Well Type/Purpose	Screened Unit	Screen Interval (ft-bgs)	Sampling Depth (ft-bgs)	Purging and Sampling Method	April Event	October Event	Once Per Year		FSWP Revision 2 (October 2011) Sampling Location	ACL Semi-Annual Monitoring Program	ACL Additional Investigation Work Plan (not including to-be-installed ACL wells, upgradient wells or gas vents)
						Routine Groundwater Monitoring		Cations and Anions	PFAS Monitoring			
						VOCs+II-1,4-dioxane, SVOCs+II-BCEE, d-Fe/Mn, TAL Metals, Ammonia	VOCs+II-1,4-dioxane, SVOCs+II-BCEE, d-Fe/Mn					
NCC Sewer Discharge Monitoring Points												
PW-1(U) Discharge	Extraction - PW-1(U)	UPA-Upper Sand	NA	NA	no purge - direct draw	x	x	-	-	-	-	-
TTO	LFExS Combined Discharge	Columbia	NA	NA	no purge - direct draw	x	x	-	-	-	-	-
PDIWP Proposed and Contingent Wells												
DDA-05-TZ-EXTR	UPCUTZ - Future Extraction Well	UPCUTZ	Proposed Well - Depths to be determined			x	x	-	-	-	-	-
DDA-06-TZ-EXTR	UPCUTZ - Future Extraction Well	UPCUTZ	Proposed Well - Depths to be determined			x	x	-	-	-	-	-
DDA-18-TZ	Monitoring - West of Well PW-1(U)	UPCUTZ	Proposed Well - Depths to be determined			x	x	-	-	-	-	-
DDA-18-US	Monitoring - West of Well PW-1(U)	UPA-Upper Sand	Proposed Well - Depths to be determined			x	x	x	-	-	-	-
DDA-19-TZ	Monitoring - East of Well PW-1(U)	UPCUTZ	Contingent Well - may not be installed - depths to be determined							-	-	-
DDA-19-US	Monitoring - East of Well PW-1(U)	UPA-Upper Sand	Proposed Well - Depths to be determined			x	x	x	-	-	-	-
DDA-20-TZ	Monitoring - Northeast of Well PW-1(U)	UPCUTZ	Proposed Well - Depths to be determined			x	x	x	-	-	-	-
DDA-20-US	Monitoring - Northeast of Well PW-1(U)	UPA-Upper Sand	Proposed Well - Depths to be determined			x	x	x	-	-	-	-
CA-102	Monitoring - Inert Area	Columbia	Proposed Well - Depths to be determined			x	x	x	-	-	-	-
UPA-102-TZ	Monitoring - Well P-6 Area	UPCUTZ	Contingent Well - may not be installed - depths to be determined							-	-	-
UPA-102-US	Monitoring - Well P-6 Area	UPA-Upper Sand	Proposed Well - Depths to be determined			x	x	x	-	-	-	-
UPA-102-LS	Monitoring - Well P-6 Area	UPA-Lower Sand	Contingent Well - may not be installed - depths to be determined							-	-	-
CA-103	Monitoring - Inert Area	Columbia	Proposed Well - Depths to be determined			x	x	x	-	-	-	-
UPA-103-TZ	Monitoring - Well P-6 Area	UPCUTZ	Contingent Well - may not be installed - depths to be determined							-	-	-
UPA-103-US	Monitoring - Well P-6 Area	UPA-Upper Sand	Proposed Well - Depths to be determined			x	x	x	x	-	-	-
UPA-104-TZ	Monitoring - Well P-6 Area	UPCUTZ	Contingent Well - may not be installed - depths to be determined							-	-	-
UPA-104-US	Monitoring - Well P-6 Area	UPA-Upper Sand	Proposed Well - Depths to be determined			x	x	x	-	-	-	-
UPA-104-LS	Monitoring - Well P-6 Area	UPA-Lower Sand	Proposed Well - Depths to be determined			x	x	x	-	-	-	-
UPA-105A-US	Monitoring - Well UPA-101 Area	UPA-Upper Sand	Proposed Well - Depths to be determined			x	x	x	x	-	-	-
UPA-105A-LS	Monitoring - Well UPA-101 Area	UPA-Lower Sand	Proposed Well - Depths to be determined			x	x	x	x	-	-	-
UPA-105B-US	Monitoring - Well UPA-101 Area	UPA-Upper Sand	Proposed Well - Depths to be determined			x	x	x	-	-	-	-
UPA-105B-LS	Monitoring - Well UPA-101 Area	UPA-Lower Sand	Proposed Well - Depths to be determined			x	x	x	-	-	-	-
UPA-105C-US	Monitoring - Well UPA-101 Area	UPA-Upper Sand	Contingent Well - may not be installed - depths to be determined							-	-	-
UPA-105C-LS	Monitoring - Well UPA-101 Area	UPA-Lower Sand	Contingent Well - may not be installed - depths to be determined							-	-	-
CA-106	Monitoring - Grantham South	Columbia	Proposed Well - Depths to be determined			x	x	x	-	-	-	-
UPA-106-TZ	Monitoring - Wells MW-18/MW-34 Area	UPCUTZ	Contingent Well - may not be installed - depths to be determined							-	-	-
UPA-106-US	Monitoring - Wells MW-18/MW-34 Area	UPA-Upper Sand	Proposed Well - Depths to be determined			x	x	x	-	-	-	-
UPA-106-LS	Monitoring - Wells MW-18/MW-34 Area	UPA-Lower Sand	Proposed Well - Depths to be determined			x	x	x	-	-	-	-
UPA-107-TZ	Monitoring - Wells MW-18/MW-34 Area	UPCUTZ	Contingent Well - may not be installed - depths to be determined							-	-	-
UPA-107-US	Monitoring - Wells MW-18/MW-34 Area	UPA-Upper Sand	Proposed Well - Depths to be determined			x	x	x	-	-	-	-
UPA-107-LS	Monitoring - Wells MW-18/MW-34 Area	UPA-Lower Sand	Proposed Well - Depths to be determined			x	x	x	-	-	-	-
UPA-108-TZ	Monitoring - Well BW-2 Area	UPCUTZ	Contingent Well - may not be installed - depths to be determined							-	-	-
UPA-108-US	Monitoring - Well BW-2 Area	UPA-Upper Sand	Proposed Well - Depths to be determined			x	x	x	x	-	-	-
UPA-108-LS	Monitoring - Well BW-2 Area	UPA-Lower Sand	Proposed Well - Depths to be determined			x	x	x	x	-	-	-
Downgradient DS&G Monitoring Locations												
DGC-8C	Monitoring - Inert Area	Columbia	19-29	30	submersible - low lfow	x	-	-	-	-	-	-
DGC-15	Columbia Head Monitoring	Columbia	19-29	-	submersible - low lfow	-	-	-	-	-	-	-
AWC-E1	Former Production - Upgradient of AWC	UPA-Upper Sand	122-162	132	submersible - low lfow	-	-	x	x	Yes	-	-
AWC-E1	Former Production - Upgradient of AWC	UPA-Lower Sand	122-162	156	submersible - low lfow	-	-	x	x	-	-	-
AWC-E2	Former Production - Upgradient of AWC	UPA-Upper Sand	131-173	140	submersible - low lfow	-	-	x	x	Yes	-	-
AWC-E2	Former Production - Upgradient of AWC	UPA-Lower Sand	131-173	165	submersible - low lfow	-	-	x	x	-	-	-
DGC-10D	Monitoring - Eastern AoA Boundary	UPA-Lower Sand	128-138	133	submersible - low lfow	x	x	x	x	Yes	-	-
DGC-10S	Monitoring - Eastern AoA Boundary	UPA-Upper Sand	93-113	103	submersible - low lfow	x	x	x	x	Yes	-	-
DGC-11D	Monitoring - Eastern AoA Boundary	UPA-Upper Sand	105-115	110	submersible - low lfow	x	x	x	-	Yes	-	-
DGC-11S	Monitoring - Eastern AoA Boundary	UPA-Upper Sand	70-80	75	submersible - low lfow	x	x	x	-	Yes	-	-
DGC-8D	Monitoring - Inert Area	UPA-Lower Sand	108-118	117	submersible - low lfow	x	-	x	-	-	-	-
DGC-8S	Monitoring - Inert Area	UPA-Upper Sand	60-80	75	submersible - low lfow	x	-	x	-	-	-	-
RT-1-UP	Monitoring	UPA-Upper Sand	91-101	100	submersible - low lfow	x	x	x	x	Yes	-	-
UPA-01	Monitoring	UPA-Upper Sand	90-100	95	submersible - low lfow	x	x	x	x	Yes	-	-
UPA-02D	Monitoring	UPA-Lower Sand	151-161	156	submersible - low lfow	x	x	x	x	Yes	-	-
UPA-02S	Monitoring	UPA-Upper Sand	97-107	102	submersible - low lfow	x	-	x	x	Yes	-	-
UPA-03D	Monitoring - Eastern AoA Boundary	UPA-Lower Sand	155-165	160	submersible - low lfow	x	x	x	x	Yes	-	-
UPA-101-TZ	Monitoring - Well P-6 Area	UPCUTZ	73-78	75	submersible - low lfow	x	-	-	-	added in 2013	-	-
UPA-101-US	Monitoring - Well P-6 Area	UPA-Upper Sand	101-111	106	submersible - low lfow	x	-	-	x	added in 2013	-	-

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NEW CASTLE COUNTY, DELAWARE

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						Routine Groundwater Monitoring		Cations and Anions	PFAS Monitoring			
						VOCs+II-1,4-dioxane, SVOCs+II-BCEE, d-Fe/Mn, TAL Metals, Ammonia	VOCs+II-1,4-dioxane, SVOCs+II-BCEE, d-Fe/Mn					
Downgradient NCC Monitoring Locations												
MW-18	Monitoring	UPA-Upper Sand	80 - 90	85	peristaltic	x	x	x	x	Yes	Annual (Oct)	-
MW-22N	Monitoring - ACL Western Lobe	UPA-Lower Sand	139 - 159	149	submersible - low lfow	-	-	-	-	-	Semi-Annual (Apr&Oct)	PFAS, Western Lobe
MW-26N	Monitoring	UPA-US and LS	108 - 168	138	submersible - low lfow	x	x	x	x	Yes	Semi-Annual (Apr&Oct)	-
MW-28	Former Extraction - ACL Eastern Lobe	UPA-US and LS	40 - 120	50	submersible - low lfow	x	-	-	-	-	Annual (Oct)	PFAS
MW-29	Former Extraction - ACL Eastern Lobe	UPA-US and LS	34 - 113	39	submersible - low lfow	x	-	-	-	-	Annual (Oct)	PFAS
MW-31	Former Extraction - ACL Eastern Lobe	UPA-US and LS	59 - 105	75	submersible - low lfow	x	-	-	-	-	Annual (Oct)	PFAS
MW-34	Monitoring	UPA-US and LS	75-131.5	100	submersible - low lfow	x	x	x	x	Yes	-	-
MW-38N	Monitoring	UPA-US and LS	72 - 132	102	submersible - low lfow	-	-	-	-	-	-	PFAS, Western Lobe
MW-40	Monitoring	UPA-Lower Sand	110 - 140	125	submersible - low lfow	-	-	-	-	-	Annual (Oct)	PFAS
MW-49N	Monitoring	UPA-US and LS	72 - 132	135	submersible - low lfow	-	-	-	-	-	Semi-Annual (Apr&Oct)	PFAS, Western Lobe
P-6	Monitoring	UPA-Upper Sand	100 - 110	105	submersible - low lfow	x	x	x	-	Yes	Semi-Annual (Apr&Oct)	-
BW-1	Monitoring	UPA-Lower Sand	106.5 - 126.5	126	submersible - low lfow	x	-	-	-	-	Annual (Oct)	PFAS
BW-2	Monitoring	UPA-Lower Sand	105 - 125	133	submersible - low lfow	x	-	-	-	-	Semi-Annual (Apr&Oct)	PFAS
BW-3	Monitoring	UPA-US and LS	50 - 135	92	submersible - low lfow	-	-	-	-	-	Annual (Oct)	PFAS
P-4	Monitoring - ACL Western Lobe	UPA-Upper Sand	115 - 125	120	submersible - low lfow	-	-	-	-	-	Annual (Oct)	PFAS, Western Lobe
P-5L	Monitoring	UPA-Lower Sand	70 - 80	131	submersible - low lfow	x	x	x	-	-	-	-
P-5U	Monitoring	UPA-Upper Sand	126 - 136	75	submersible - low lfow	x	-	-	-	-	-	-
RW-10	Former Extraction - ACL Western Lobe	UPA-Upper Sand	77 - 102	90	submersible - low lfow	-	-	-	-	-	-	PFAS, Western Lobe
AWC Wells - only extraction wells which are pumping at the time of the event can be sampled												
AWC-2	Production Well	UPA-Lower Sand	122-160	NA	no purge - direct draw	-	-	-	by AWC qrtrly	-	-	Cations/anions once
AWC-6R	Production Well	UPA-US and LS	100-140	NA	no purge - direct draw	x	x	-	by AWC qrtrly	-	-	Cations/anions once
AWC-7	Production Well	UPA-US and LS	115-175	NA	no purge - direct draw	x	x	-	by AWC qrtrly	Yes	-	Cations/anions once
AWC-G3R	Production - Southern AoA Boundary	UPA-US and LS	102-157	NA	no purge - direct draw	x	x	-	by AWC qrtrly	Yes	-	Cations/anions once
AWC-K1	Monitoring - Eastern AoA Boundary	UPA-Lower Sand	135-173	160	submersible - low lfow	x	x	-	-	Yes	-	-

Notes:
1) "x" indicates location will be sampled for indicated parameter(s)
2) "-" indicates location will not be sampled for indicated parameters and/or location was not included as a FSWP Revision 2 sample location
3) List of cations and anions for analysis includes: calcium, magnesium, potassium, sodium, ammonia, nitrate, nitrite, sulfate, sulfide, chloride and bicarbonate.
4) * indicates EPA requested PFAS sampling location
5) ** indicates proposed additional PFAS sampling location based on EPA's April 26, 2018 email and Trust's August 2018 response
6) Frequency of "once per year" = annually; however, which semi-annual event (April or October) will depend on well installation date and ACL coordination
7) April monitoring event represents a is site-wide event and October monitoring event is limited to information needed for design
8) A synoptic round of water levels will be collected prior to sampling during each monitoring event.
9) AWC agreed to let the Golder sample AWC wells as part of semi-annual monitoring events beginning in October 2018.
10) Trip blanks will accompany each shipment of VOC samples (1 per day).
11) The following quality assurance/quality control (QA/QC) samples will be collected during each monitoring event at a rate of 1 per 20 primary samples: field duplicates, field equipment rinsate blanks, matrix spikes and matrix spike duplicates.
12) See Attachment H for acronyms and abbreviations
13) The LFExS discharge is monitored on a semi-annual basis in accordance with the New Castle County Wastewater Discharge Permit requirements. The samples are analyzed for Total Toxic Organics (TTO) VOCs, TTO SVOCs, TTO pesticides, polychlorinated biphenyls (PCBs), biological oxygen demand (BOD), Inductively Coupled Plasma Mass Spectroscopy (ICP MS) metals (arsenic, cadmium, chromium, copper, lead, molybdenum, nickel, selenium, and zinc), mercury (cold vapor atomic absorption; CVAA), ammonia, total suspended solids (TSS), total cyanide and pH.
14) The PW-1(U) system discharge is monitored on a semi-annual basis in accordance with the New Castle County Wastewater Discharge Permit requirements. The samples are analyzed for VOCs, SVOCs, BOD, ICP MS metals (arsenic, cadmium, chromium, copper, lead, molybdenum, nickel, selenium, and zinc), mercury (CVAA), ammonia, TSS, cyanide

Checked by: MBS
Reviewed by: TAM